

Water Management

Guthrie County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.88	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
8B: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.16	Very limited Deep to water	1.00
8C: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.16	Very limited Deep to water	1.00
9B: Marshall-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
9C2: Marshall-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
9D2: Marshall-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
11B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.16	Very limited Deep to water	1.00
24B: Shelby-----	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
24C2: Shelby-----	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
24D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00

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24E2: Shelby-----	Somewhat limited		Not limited		Very limited	
	Seepage	0.05			Deep to water	1.00
	Slope	0.04				
24E3: Shelby-----	Somewhat limited		Not limited		Very limited	
	Seepage	0.05			Deep to water	1.00
	Slope	0.04				
24F2: Shelby-----	Somewhat limited		Not limited		Very limited	
	Slope	0.18			Deep to water	1.00
	Seepage	0.05				
24F3: Shelby-----	Somewhat limited		Not limited		Very limited	
	Slope	0.18			Deep to water	1.00
	Seepage	0.05				
51A: Vesser-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	1.00	Slow refill	0.30
			Piping	0.12	Cutbanks cave	0.10
					Deep to water	0.01
51A+: Vesser-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	1.00	Slow refill	0.30
			Piping	0.12	Cutbanks cave	0.10
					Deep to water	0.01
54: Zook-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.05	Depth to saturated zone	1.00	Slow refill	0.95
			Hard to pack	0.92	Cutbanks cave	0.10
54+: Zook-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	1.00	Slow refill	0.30
			Hard to pack	0.54	Cutbanks cave	0.10

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55A: Nicollet-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.02 0.01	Somewhat limited Deep to water Slow refill Cutbanks cave	0.68 0.30 0.10
62C2: Storden-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
62D2: Storden-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Piping	1.00	Very limited Deep to water	1.00
62E2: Storden-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Piping	1.00	Very limited Deep to water	1.00
62F2: Storden-----	Somewhat limited Seepage Slope	0.70 0.18	Very limited Piping	1.00	Very limited Deep to water	1.00
65E2: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.54	Very limited Deep to water	1.00
65F2: Lindley-----	Somewhat limited Slope Seepage	0.18 0.05	Somewhat limited Piping	0.54	Very limited Deep to water	1.00
65F3: Lindley-----	Somewhat limited Slope Seepage	0.18 0.05	Somewhat limited Piping	0.54	Very limited Deep to water	1.00
65G2: Lindley-----	Somewhat limited Slope Seepage	0.64 0.05	Somewhat limited Piping	0.54	Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
69D2: Clearfield-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.01	Hard to pack	0.85	Cutbanks cave Deep to water	0.10 0.01
73D2: Salida-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.27	Very limited Deep to water	1.00
	Slope	0.01				
76A: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76B: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76C: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76C2: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
76D: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
	Slope	0.01				
76D2: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
	Slope	0.01				
76E2: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
	Slope	0.04				
80B: Clinton-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80C2: Clinton-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
80D2: Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
80D3: Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
88: Nevin-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
93D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
Adair-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
93D3: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
Adair-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
93E2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Adair-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.04			Cutbanks cave Deep to water	0.10 0.01
93E3: Shelby-----	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
	Slope	0.04				
Adair-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.04			Cutbanks cave Deep to water	0.10 0.01
95: Harps-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
107: Webster-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
108A: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
108B: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
108C2: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
133A: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133A+: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
133B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
133B+: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
138B: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
138B2: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
138C: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
138C2: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
138D2: Clarion-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Piping	1.00	Very limited Deep to water	1.00
138E: Clarion-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Piping	1.00	Very limited Deep to water	1.00
179D2: Gara-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00

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179E2: Gara-----	Somewhat limited		Not limited		Very limited	
	Seepage	0.05			Deep to water	1.00
	Slope	0.04				
179F2: Gara-----	Somewhat limited		Not limited		Very limited	
	Slope	0.18			Deep to water	1.00
	Seepage	0.05				
179G2: Gara-----	Somewhat limited		Not limited		Very limited	
	Slope	0.64			Deep to water	1.00
	Seepage	0.05				
192D2: Adair-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.05	Depth to saturated zone	1.00	Slow refill	0.95
	Slope	0.01			Cutbanks cave	0.10
					Deep to water	0.01
192E2: Adair-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.05	Depth to saturated zone	1.00	Slow refill	0.95
	Slope	0.04			Cutbanks cave	0.10
					Deep to water	0.01
192E3: Adair-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.05	Depth to saturated zone	1.00	Slow refill	0.95
	Slope	0.04			Cutbanks cave	0.10
					Deep to water	0.01
201B: Olmitz-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.08	Deep to water	1.00
Colo-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	1.00	Slow refill	0.30
					Cutbanks cave	0.10

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203: Cylinder-----	Very limited Seepage	1.00	Somewhat limited Depth to saturated zone Seepage	0.43 0.41	Very limited Cutbanks cave Deep to water	1.00 0.25
212: Kennebec-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.86	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
220: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
222C2: Clarinda-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.97	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.01
222D2: Clarinda-----	Somewhat limited Seepage Slope	0.01 0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.97	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.01
236B: Lester-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.19	Very limited Deep to water	1.00
236C2: Lester-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.19	Very limited Deep to water	1.00
236D2: Lester-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.19	Very limited Deep to water	1.00

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269: Humeston-----	Not limited		Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
273B: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
273C: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.08	Very limited Deep to water	1.00
308A: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
308B: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
308C: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
313E2: Gosport-----	Somewhat limited Depth to bedrock Slope	0.11 0.02	Very limited Hard to pack Depth to saturated zone Thin layer	1.00 0.95 0.86	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
313F2: Gosport-----	Somewhat limited Slope Depth to bedrock	0.24 0.11	Very limited Hard to pack Depth to saturated zone Thin layer	1.00 0.95 0.86	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
315: Alluvial Land-----	Not rated		Not rated		Not rated	
318F: Clanton-----	Somewhat limited Slope	0.24	Not limited		Very limited Deep to water	1.00

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354: Marsh-----	Not rated		Not rated		Not rated	
368: Macksburg-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
370A: Sharpsburg-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
370B: Sharpsburg-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
370C: Sharpsburg-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
370C2: Sharpsburg-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
370D: Sharpsburg-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
370D2: Sharpsburg-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
370E2: Sharpsburg-----	Somewhat limited Seepage Slope	0.70 0.04	Not limited		Very limited Deep to water	1.00
415D: Montieth-----	Very limited Seepage Depth to bedrock Slope	1.00 0.07 0.01	Somewhat limited Thin layer Seepage	0.79 0.33	Very limited Deep to water	1.00

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415E: Montieth-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Thin layer	0.79	Deep to water	1.00
	Depth to bedrock	0.07	Seepage	0.33		
	Slope	0.04				
415F: Montieth-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Thin layer	0.79	Deep to water	1.00
	Slope	0.24	Seepage	0.33		
	Depth to bedrock	0.07				
416E: Hesch-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Thin layer	0.86	Deep to water	1.00
	Depth to bedrock	0.11	Seepage	0.09		
	Slope	0.02				
417D: Hesch-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Thin layer	0.86	Deep to water	1.00
	Depth to bedrock	0.11	Seepage	0.09		
	Slope	0.01				
417E: Hesch-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Thin layer	0.86	Deep to water	1.00
	Depth to bedrock	0.11	Seepage	0.09		
	Slope	0.04				
428B: Ely-----	Somewhat limited		Somewhat limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	0.43	Slow refill	0.30
			Piping	0.20	Deep to water	0.25
					Cutbanks cave	0.10
485A: Spillville-----	Very limited		Somewhat limited		Somewhat limited	
	Seepage	1.00	Piping	0.65	Deep to water	0.81
			Seepage	0.09	Cutbanks cave	0.10
507: Canisteo-----	Somewhat limited		Very limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	1.00	Slow refill	0.30
			Piping	0.28	Cutbanks cave	0.10

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585B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.65 0.09	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
615B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping Seepage	0.65 0.09	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
675C2: Dickinson-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.62	Very limited Deep to water	1.00
Sharpsburg-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
675D2: Dickinson-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.62	Very limited Deep to water	1.00
Sharpsburg-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Very limited Deep to water	1.00
733: Calco-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
822D2: Lamoni-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone	1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01

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822E2: Lamoni-----	Somewhat limited Slope	0.04	Very limited Depth to saturated zone	1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
993E2: Gara-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00
Armstrong-----	Somewhat limited Seepage Slope	0.05 0.04	Very limited Depth to saturated zone Seepage	1.00 0.02	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
C133A: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
C220: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
T9B: Marshall-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
T76B: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
T370B: Sharpsburg-----	Somewhat limited Seepage	0.70	Not limited		Very limited Deep to water	1.00
W: Water-----	Not rated		Not rated		Not rated	